Owen Prioreschi

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Education

Harvey Mudd College — Expected May 2030
B.S. Engineering — *Claremont, CA*

Reno High School — Jun 2026
Salutatorian | National Merit Finalist | SAT: 1550 | ACT: 35 — *Reno, NV*

Experience

CMC Student Quantitative Fund — Oct 2026 – Present
Quantitative Researcher — *Claremont, CA*

- Selected from the 5C applicant pool as one of 8 quantitative researchers under faculty advisor Prof. Ben Gillen
- Conduct quantitative and fundamental research on systematic equity strategies for the fund's first live strategy
- Researching a systematic strategy around liability management exercise (LME) risk from covenant data

Harvey Mudd College Rocketry Club — Sep 2026 – Present
Propulsion Team — *Claremont, CA*

- Designed the rocket's avionics and camera bays: a printed avionics bay holding the flight PCB, barometer, LoRa radio, and LiPo battery, and a camera bay with two cameras and two receivers for live tracking
- Ran OpenRocket simulations tuning fin parameters for apogee under stability and structural limits
- Modeled rocket structures in SolidWorks for fluid simulations at various control surface orientations

Chess Club — Aug 2023 – Jun 2026
President — *Reno, NV*

- Organized district-wide tournaments for 5+ Northern Nevada high schools; designed brackets and marketed events

Nevada Math Competition Team — Sep 2016 – May 2026
Team Member — *Reno, NV*

- Placed 8th in the Nevada State Math Competition; member of the Nevada ARML team
- Volunteered 200+ hours teaching summer math courses on game theory and combinatorics

Projects

Motherboard Housing | *Autodesk Fusion* — Aug 2026

- Modeled a motherboard housing for Great Divide IT, holding port and standoff tolerances to 0.1 mm

Mechanical Keyboard Frame | *Autodesk Fusion, Blender* — Jul 2026

- Designed a custom mechanical keyboard frame, applying fit tolerancing for switch and plate mounting

Solid-State Radio to Guitar Amplifier Conversion — Jun 2026

- Modified a vintage Sony radio's audio signal path and rebuilt it as a functioning guitar amplifier

Awards

Randall Lewis Center Innovation Sprint | *1st Place* — Sep 2026

- Won the $2,000 grand prize among 23 teams (148 students) for a compliance assistant that drafts NESHAP work-practices narratives from asbestos abatement contractors' field notes
- Contacted 200+ California contractors by email and phone during the one-week sprint

We The People Civics Competition | *1st Place, National Division* — Apr 2026

- Delivered constitutional-law argumentation for the Reno High civics team; scored highest individually

Technical Skills

CAD & Modeling: Autodesk Fusion, SolidWorks, Blender (4+ years), technical drafting
Simulation & Analysis: OpenRocket flight simulation, SolidWorks fluid simulation
Mathematics: Nevada ARML Team, Harvey Mudd Putnam class
Python: data analysis and visualization (NumPy, pandas, Matplotlib); scripting and automation